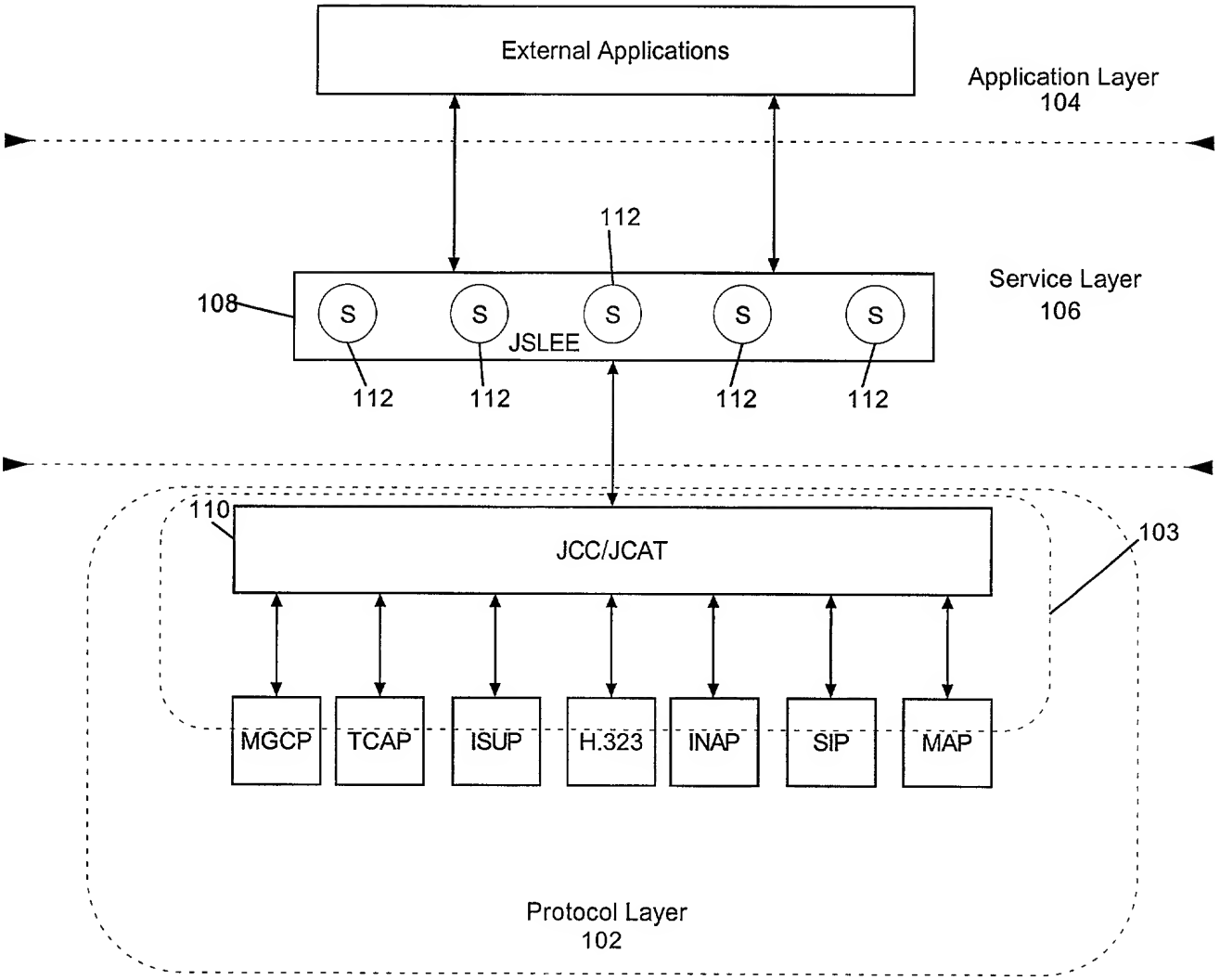

FIG. 1 (Prior Art)

EL649716115US

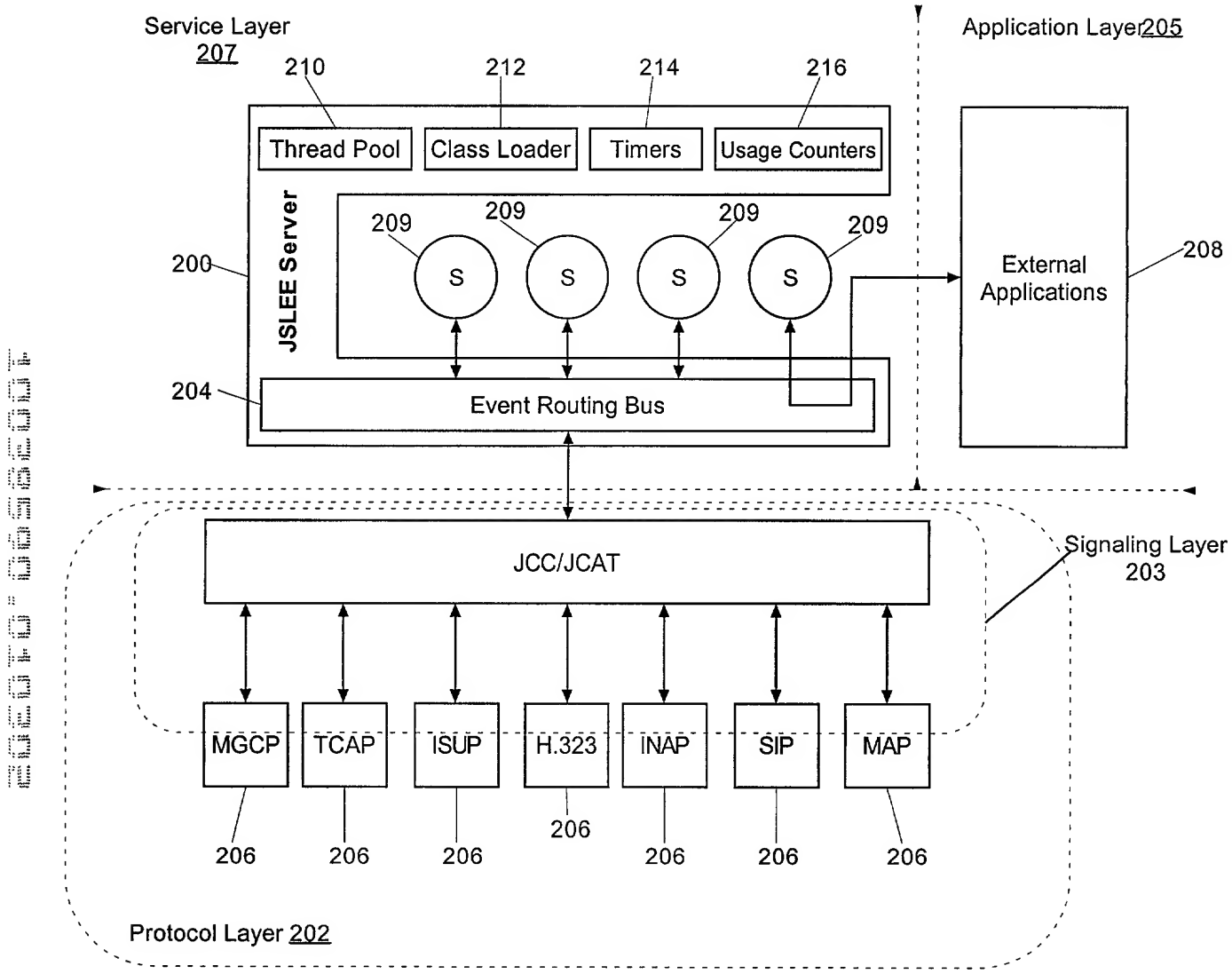
Service Layer
207
Application Layer 205
210
212
214
216
Thread Pool
Class Loader
Timers
Usage Counters
JSLEE Server
200
209
209
209
209
S
S
S
S
External Applications
208
204
Event Routing Bus
JCC/JCAT
Signaling Layer
203
MGCP
TCAP
ISUP
H.323
INAP
SIP
MAP
206
206
206
206
206
206
206
Protocol Layer 202

FIG. 2

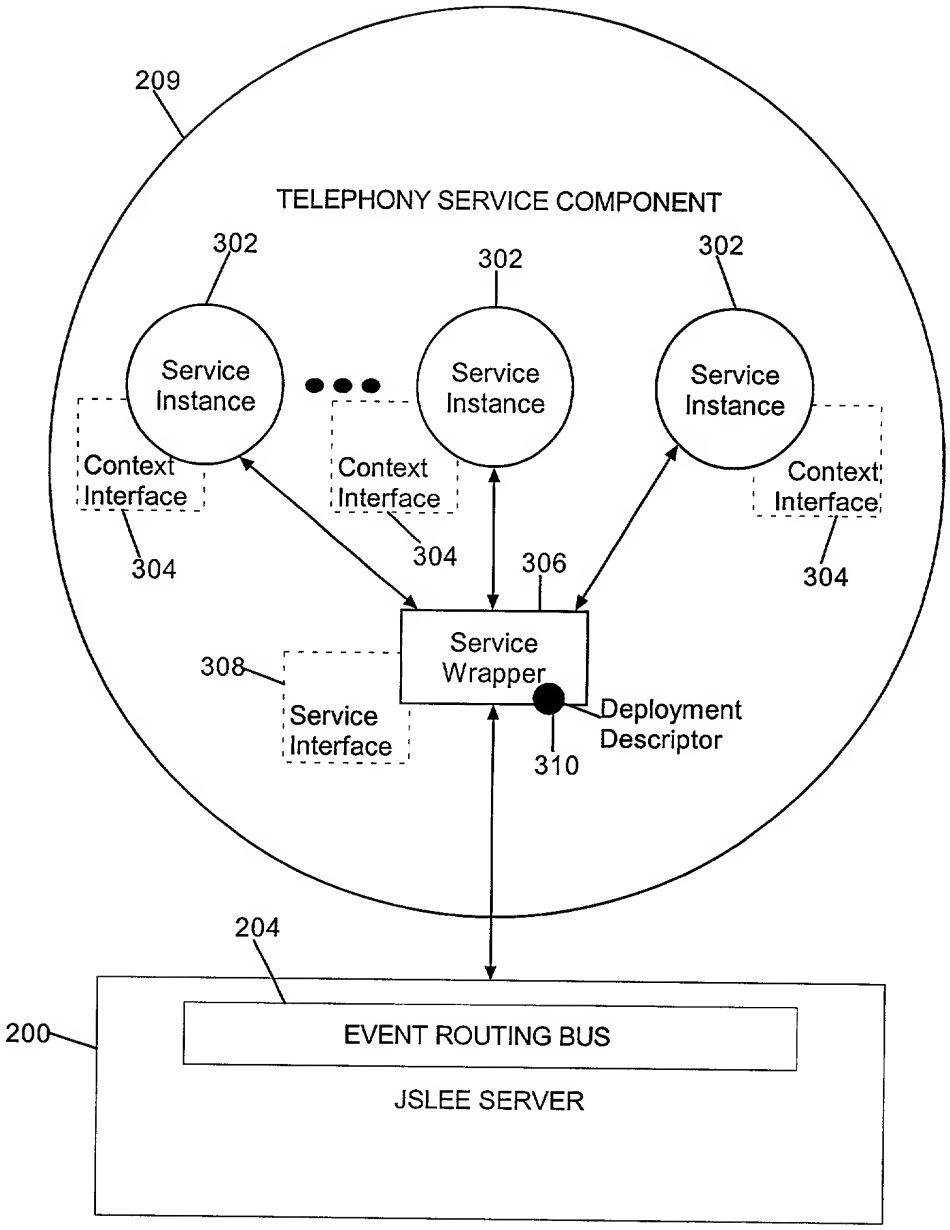
209
TELEPHONY SERVICE COMPONENT
302
302
302
Service Instance
Service Instance
Service Instance
Context Interface
Context Interface
Context Interface
304
304
304
306
Service Wrapper
308
Service Interface
Deployment Descriptor
310
204
200
EVENT ROUTING BUS
JSLEE SERVER

FIG. 3

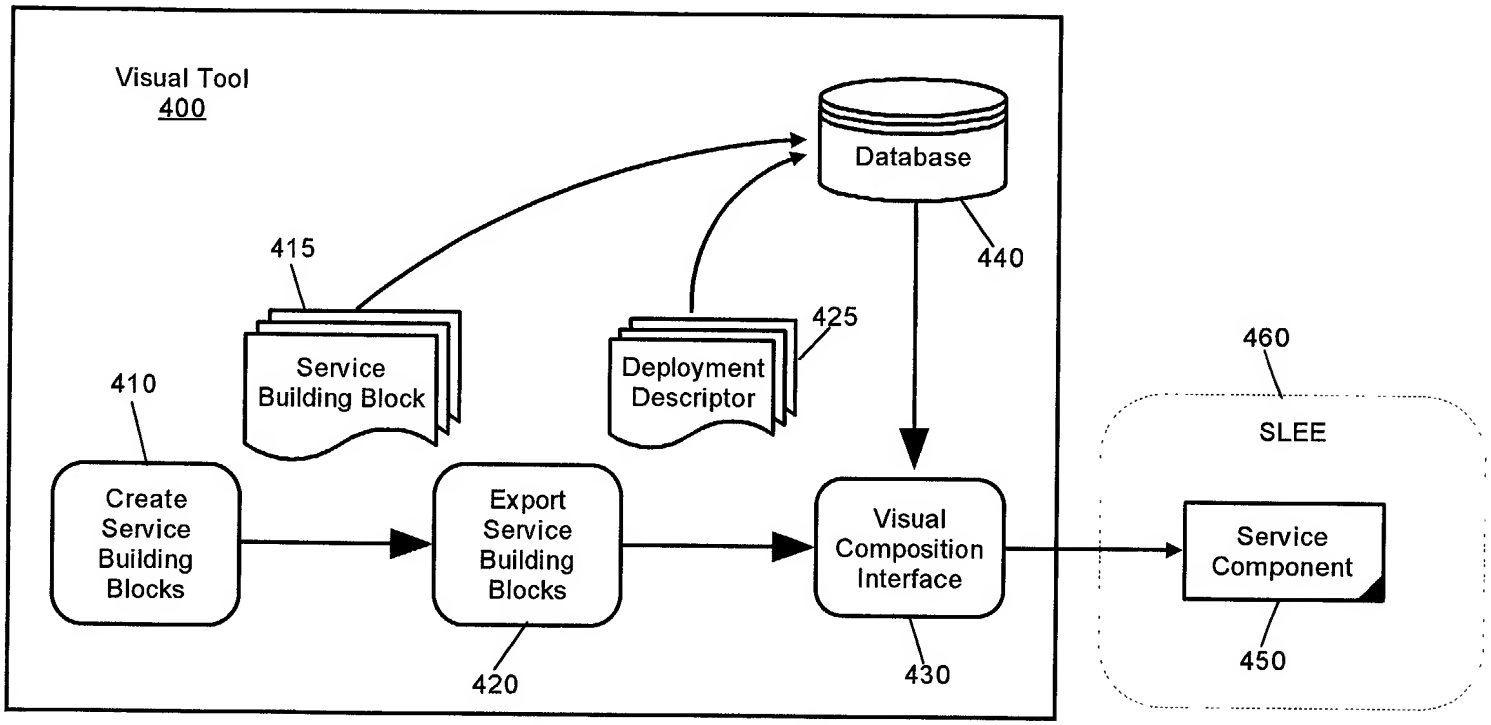
Visual Tool
400
Database
440
415
Service
Building Block
425
Deployment
Descriptor
460
SLEE
410
Create
Service
Building
Blocks
Export
Service
Building
Blocks
Visual
Composition
Interface
Service
Component
420
430
450

FIG. 4

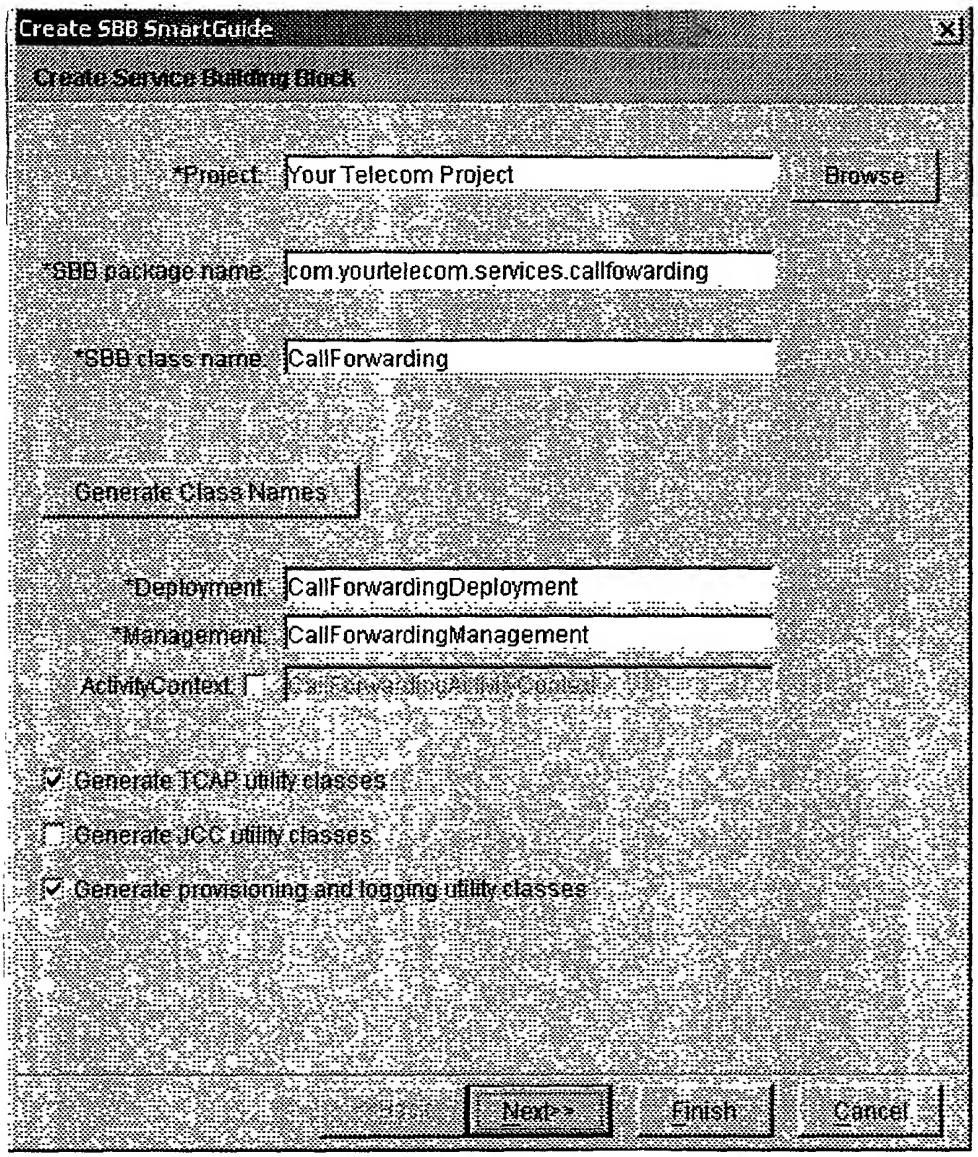
Create SBB SmartGuide
Create Service Building Block
*Project:
Your Telecom Project
Browse
*SBB package name:
com.yourtelecom.services.callfowarding
*SBB class name:
CallForwarding
Generate Class Names
*Deployment:
CallForwardingDeployment
*Management:
CallForwardingManagement
ActivityContext:
Generate TCAP utility classes
Generate JCC utility classes
Generate provisioning and logging utility classes
Next >
Finish
Cancel

FIG. 5A

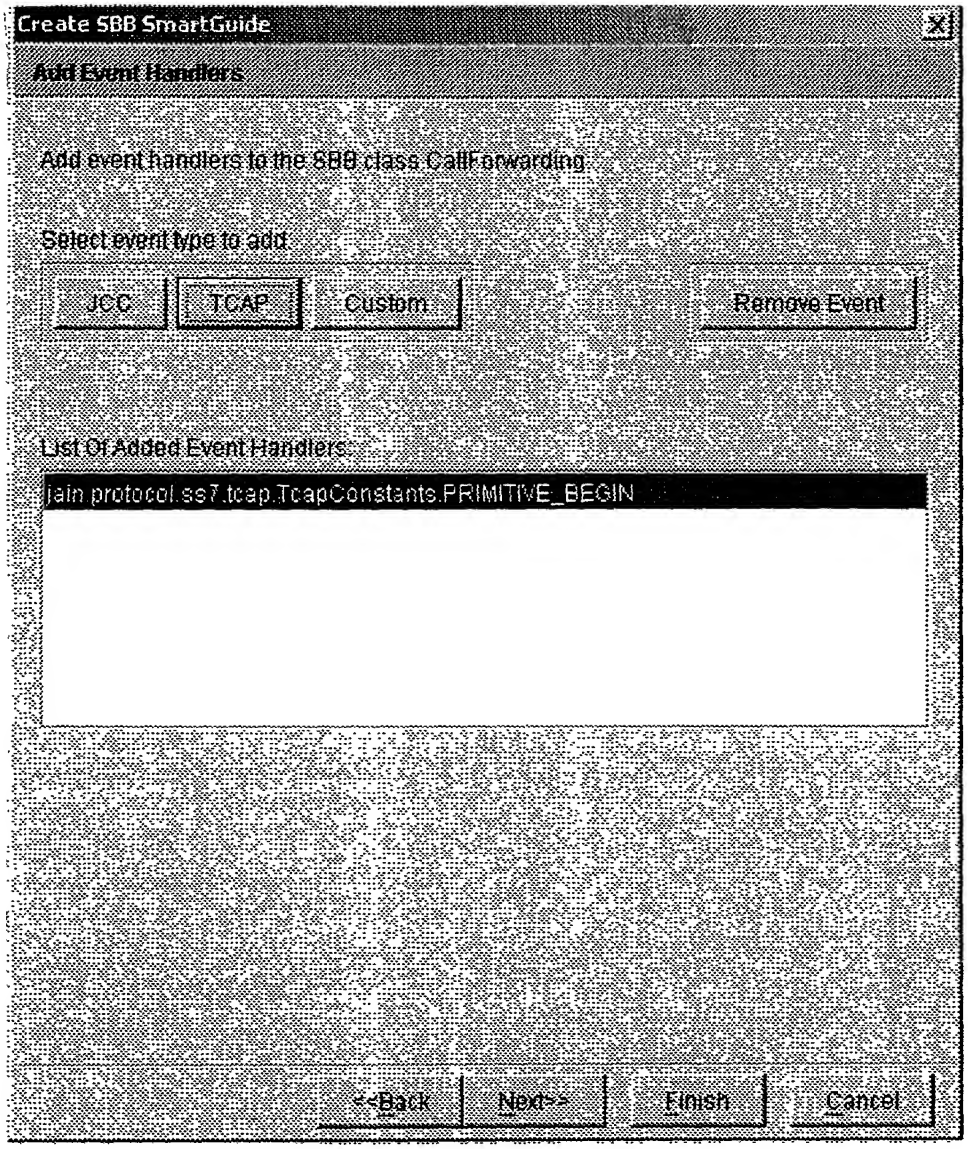
Create SBB SmartGuide
Add Event Handlers
Add event handlers to the SBB class CallForwarding.
Select event type to add:
JCC
TCAP
Custom
Remove Event
List Of Added Event Handlers:
Jain protocol.ss7.tcap.TcapConstants.PRIMITIVE_BEGIN
<<Back
Next>>
Finish
Cancel

FIG. 5B

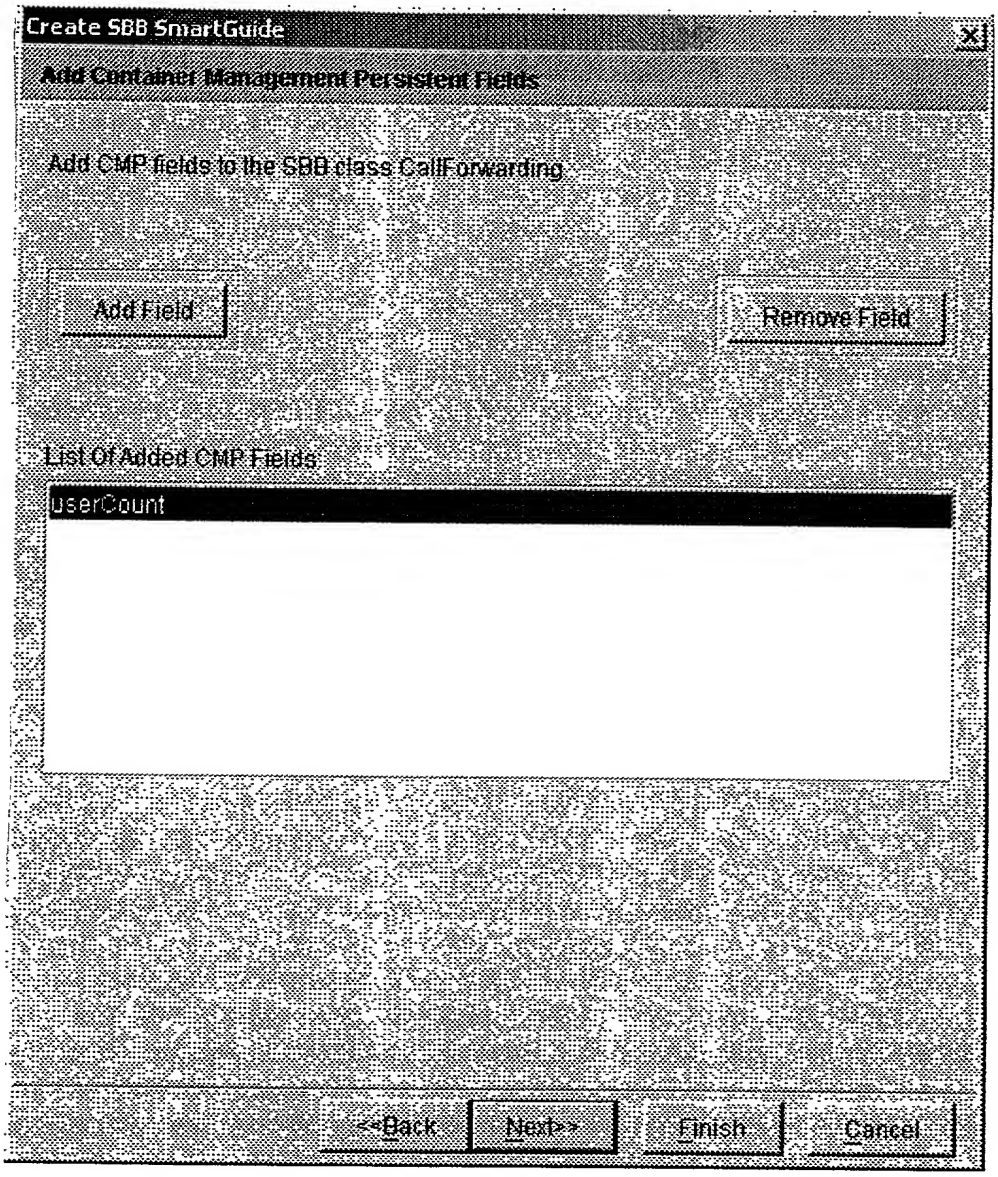
Create SBB SmartGuide
Add Container Management Persistent Fields
Add CMP fields to the SBB class CallForwarding
Add Field
Remove Field
List Of Added CMP Fields
userCount
<<Back
Next>>
Finish
Cancel

FIG. 5C

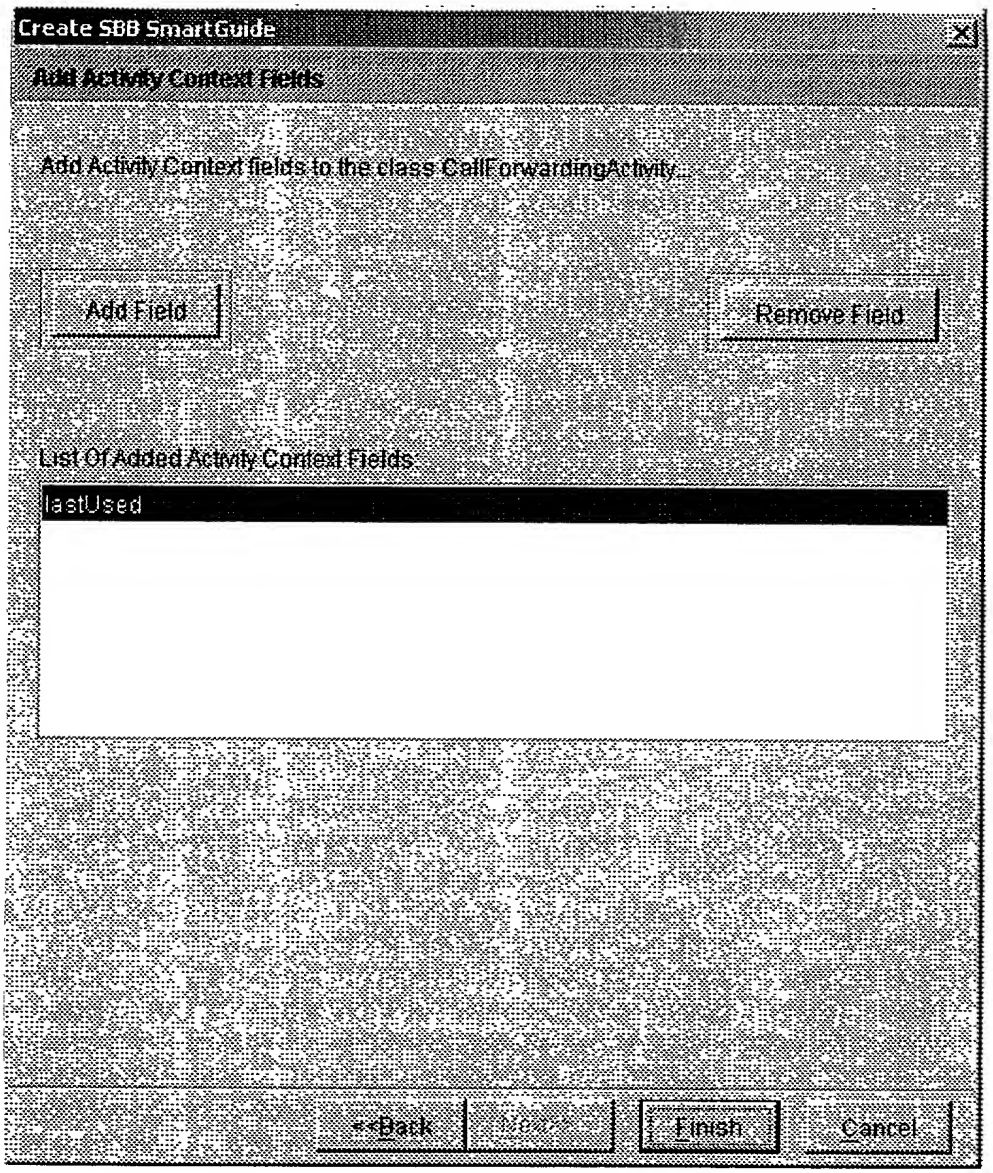
Create SBB SmartGuide
Add Activity Context Fields
Add Activity Context fields to the class CallForwardingActivity...
Add Field
Remove Field
List Of Added Activity Context Fields
lastUsed
<<Back
Next>>
Finish
Cancel

FIG. 5D

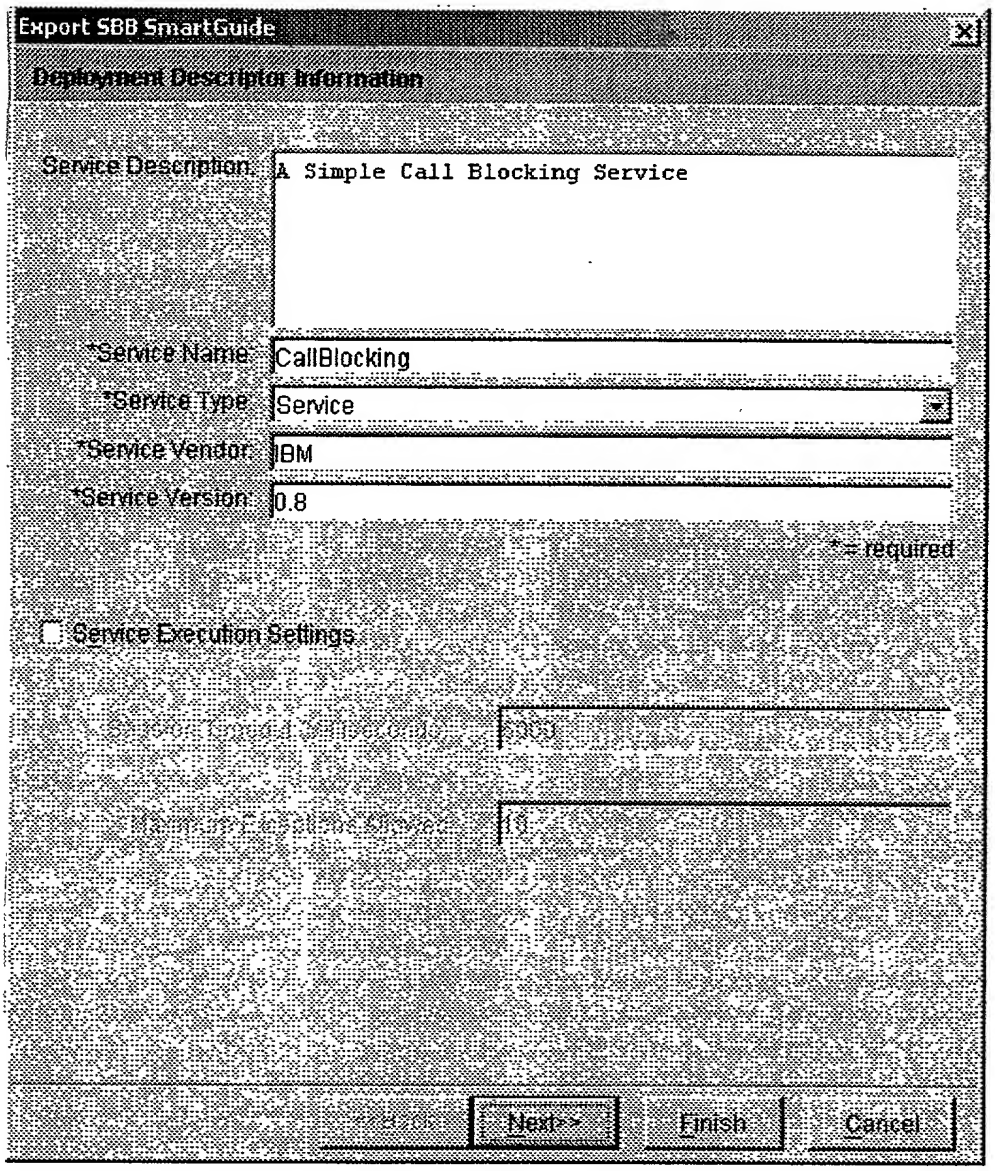
Export SBB SmartGuide
Deployment Descriptor Information
Service Description:
A Simple Call Blocking Service
*Service Name:
CallBlocking
*Service Type:
Service
*Service Vendor:
IBM
*Service Version:
0.8
*= required
Service Execution Settings
Next>
Finish
Cancel

FIG. 6A

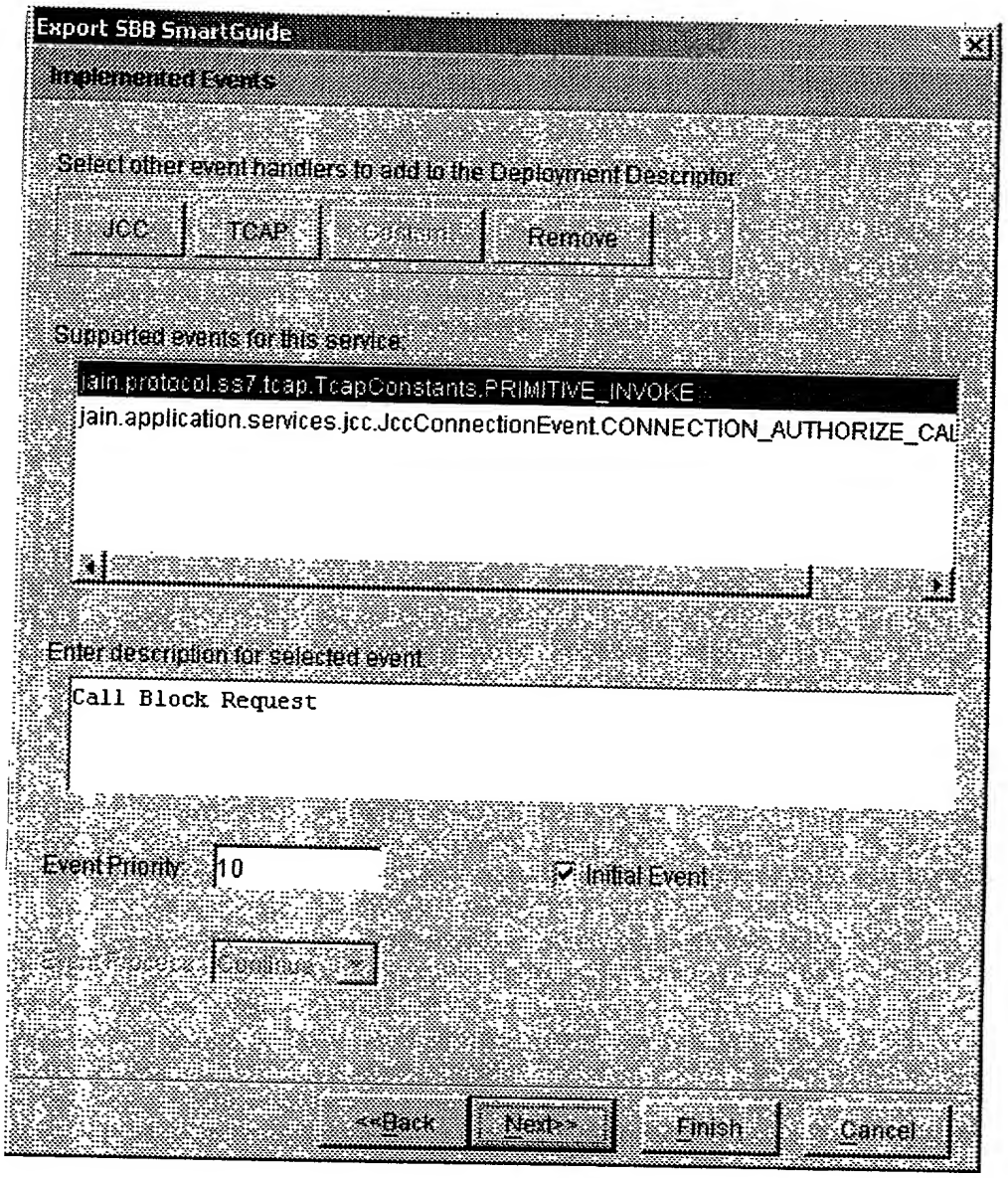
Export SBB SmartGuide
Implemented Events
Select other event handlers to add to the Deployment Descriptor:
JCC
TCAP
Custom
Remove
Supported events for this service:
jain.protocol.ss7.tcap.TcapConstants.PRIMITIVE_INVOKE
jain.application.services.jcc.JccConnectionEvent.CONNECTION_AUTHORIZE_CAL
Enter description for selected event:
Call Block Request
Event Priority:
10
Initial Event
Event Model:
Continue
<<Back
Next>>
Finish
Cancel

FIG. 6B

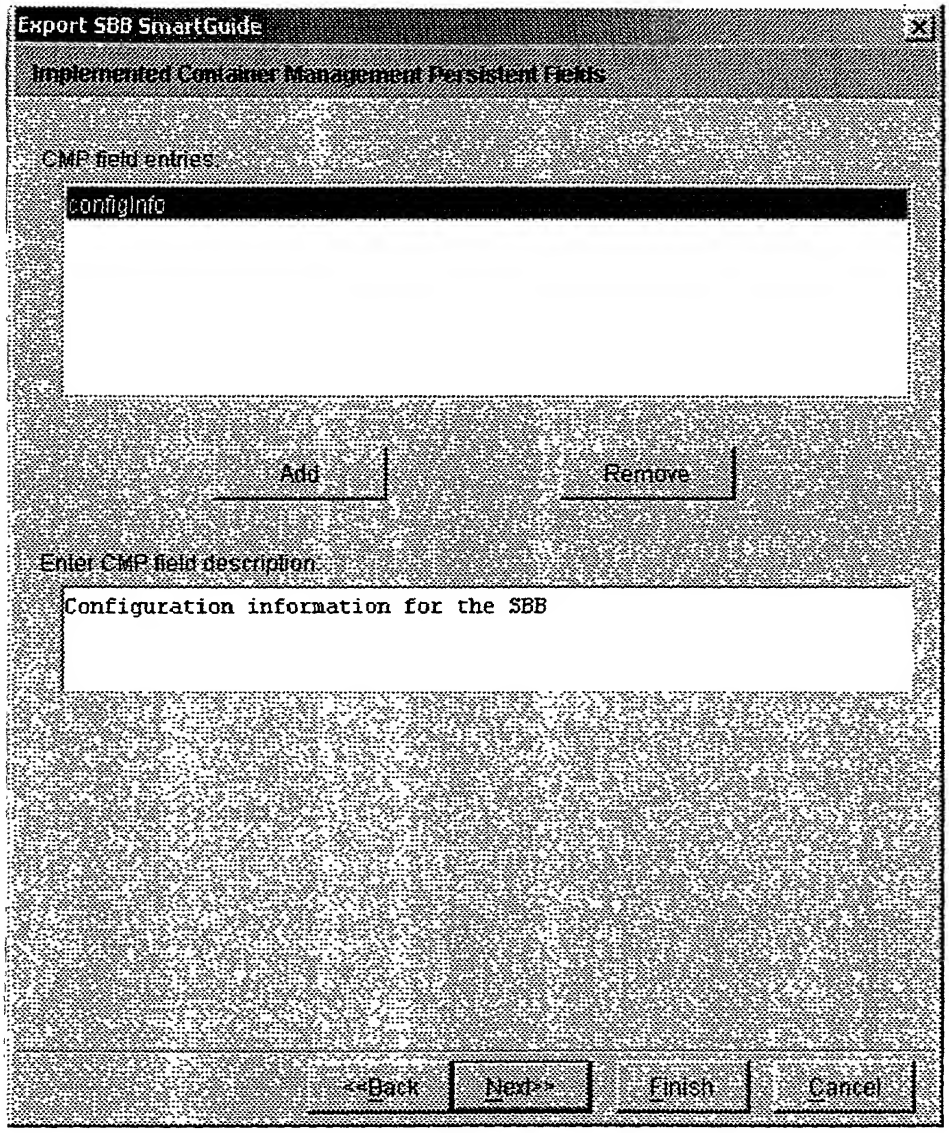
Export SBB SmartGuide
Implemented Container Management Persistent Fields
CMP field entries:
configInfo
Add
Remove
Enter CMP field description:
Configuration information for the SBB
<<Back
Next>>
Finish
Cancel

FIG. 6C

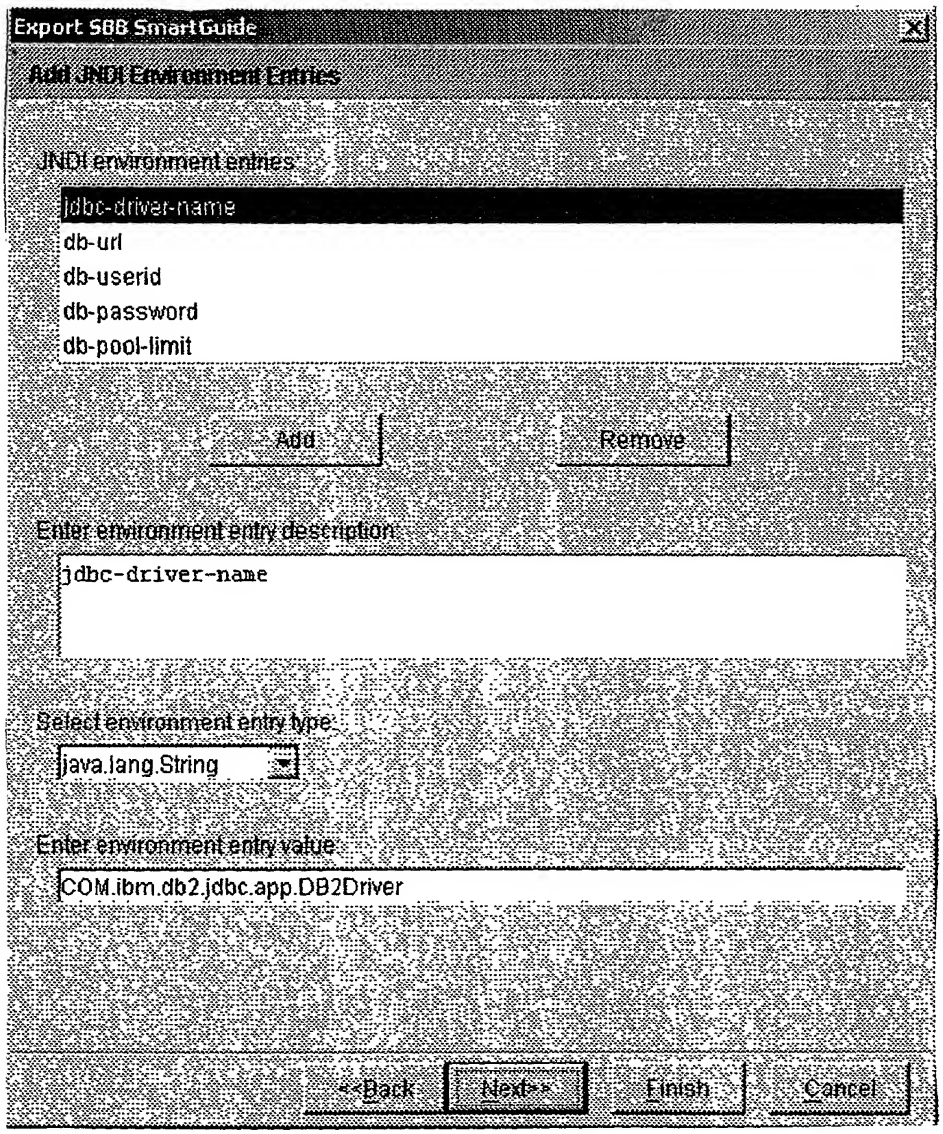
Export SBB SmartGuide
Add JNDI Environment Entries
JNDI environment entries:
jdbc-driver-name
db-url
db-userid
db-password
db-pool-limit
Add
Remove
Enter environment entry description:
jdbc-driver-name
Select environment entry type:
java.lang.String
Enter environment entry value:
COM.ibm.db2.jdbc.app.DB2Driver
<<Back
Next>>
Finish
Cancel

FIG. 6D

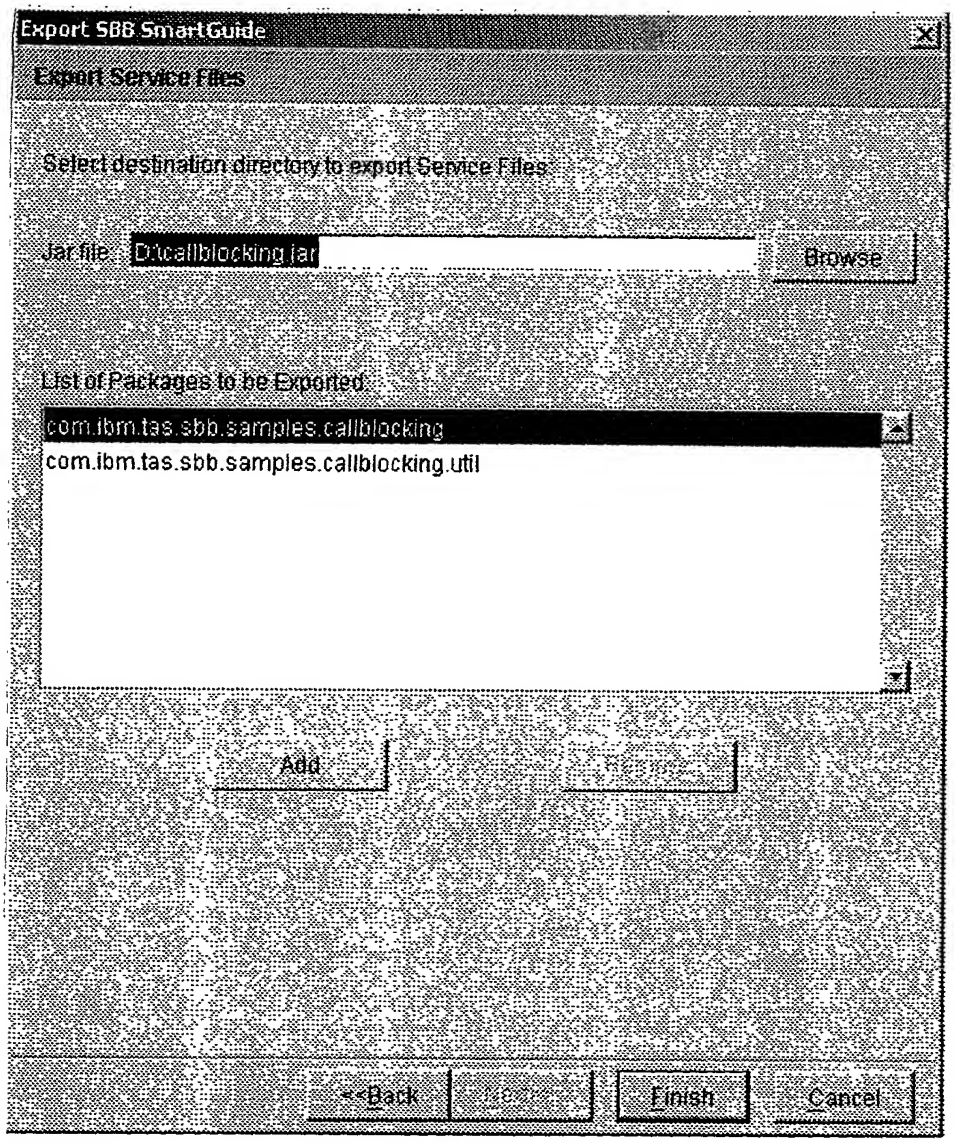
Export SBB SmartGuide
Export Service Files
Select destination directory to export Service Files:
Jar file: D:\callblocking.jar
Browse
List of Packages to be Exported:
com.ibm.tas.sbb.samples.callblocking
com.ibm.tas.sbb.samples.callblocking.util
Add
<Back
Next>
Finish
Cancel

FIG. 6E

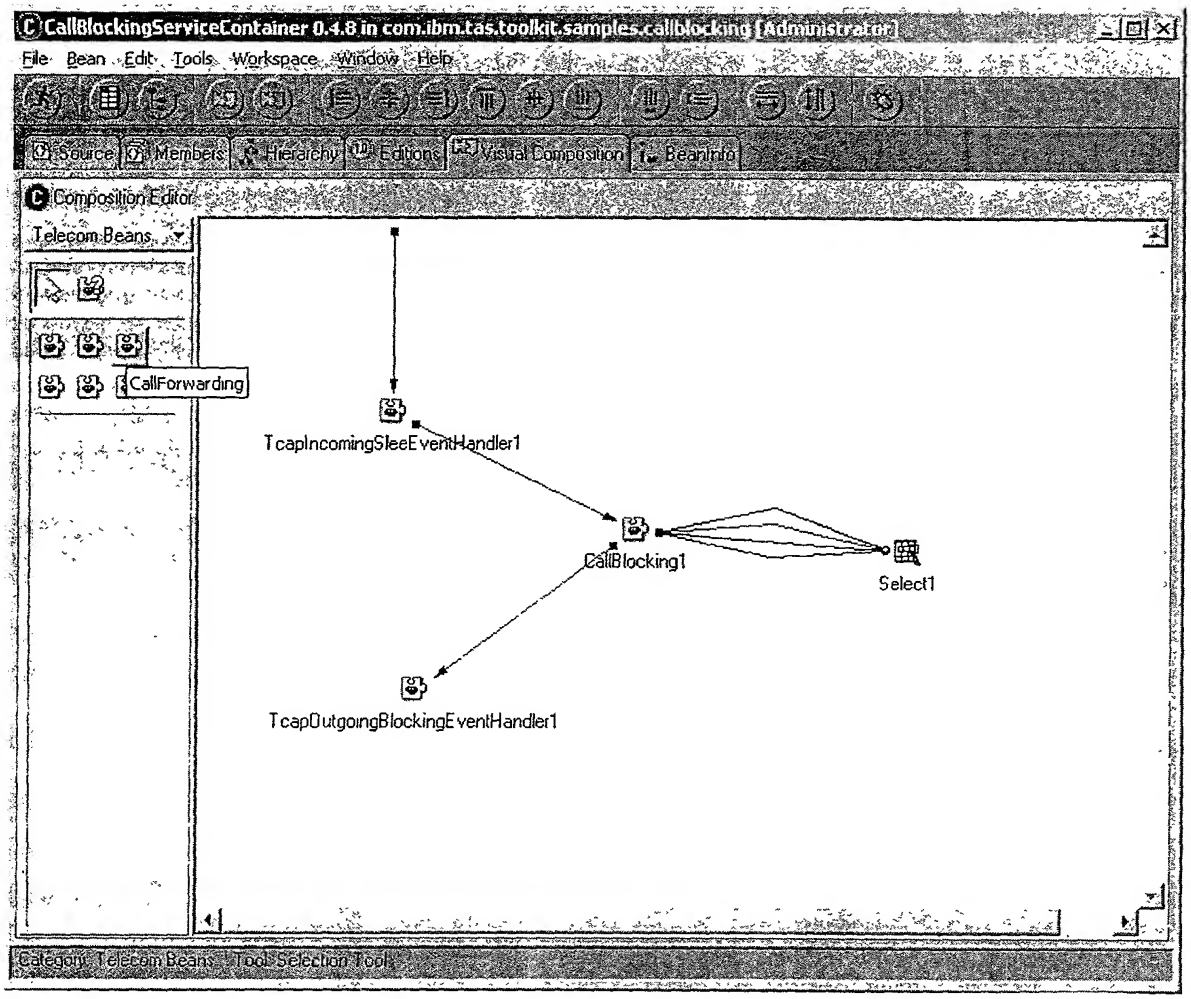
CallBlockingServiceContainer 0.4.8 in com.ibm.tas.toolkit.samples.callblocking [Administrator]
File Bean Edit Tools Workspace Window Help
Source Members Hierarchy Editions Visual Composition BeanInfo
Composition Editor
Telecom Beans
CallForwarding
TcapIncomingSleeEventHandler1
CallBlocking1
Select1
TcapOutgoingBlockingEventHandler1
Category: Telecom Beans Tool: Selection Tool

FIG. 7